AUTOMATION TRADER

1FL6052-2AF21-0MA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	1fl6052-2af21-0ma1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Power Rating	1.5 kW
Rated Speed	3000 rpm
Maximum Speed	5000 rpm
Rated Torque	4.78 Nm
Maximum Torque	14.30 Nm
Encoder Resolution	21-bit single-turn
Encoder Increments per Revolution	2500 increments/rev
Shaft Height	50 mm
Degree of Protection	IP65
Thermal Class	B (130 °C)
Compliance	CE, EAC

Description

The Siemens 1FL6052-2AF21-0MA1 is a high-performance permanent-magnet synchronous motor from the SIMOTICS S-1FL6 series, designed for demanding industrial applications requiring precise control and reliability.

Operating at a rated voltage of 230 V 3-phase AC, it delivers a continuous power output of 1.5 kW and achieves a rated speed of 3,000 rpm, with a maximum speed of 5,000 rpm. The motor provides a rated torque of 4.78 Nm and a maximum torque of 14.30 Nm, ensuring robust performance across various

operational conditions.

Its encoder system features an absolute single-turn 21-bit resolution, offering 2,500 increments per revolution, which enhances position accuracy and control precision. The motor's shaft is equipped with a feather key and has a shaft height of 50 mm, facilitating easy integration into existing systems.

Designed with a degree of protection IP65, it is well-suited for environments where dust and water resistance are essential. The motor's thermal class is B (130 °C), indicating its capability to operate in higher temperature settings without compromising performance.

Additionally, it complies with CE and EAC standards, ensuring adherence to international safety and quality regulations. This motor is compatible with SINAMICS V90 converters, making it a versatile choice for various automation tasks.